

AMENDMENTS TO THE DRAWINGS

Attached hereto is a Replacement Drawing Sheet, including original FIGS. 4J and 4L and amended FIG. 4K. FIG. 4K is amended such that reference term 108 correctly points to the metal film shown therein. Entry of the Replacement Drawing Sheet is respectfully requested.

**REMARKS**

Prior to entry of this amendment, claims 1 and 17-31 are pending in the subject application.

By this amendment, FIG. 4K, claims 1, 17-29 and 31 are amended, and claim 30 is cancelled without prejudice to or disclaimer of the subject matter contained therein. No new matter is added.

Consideration of claims 1, 17-29 and 31 is respectfully requested. Claim 1 is the sole independent claim.

A. Response to Examiner's Comments in September 1, 2006 Advisory Action

In the September 1, 2006 Advisory Action, the Examiner stated that claims 20, 22, 23, 24, 25, 28 and 30, as set forth in the non-entered August 4, 2006 Amendment After Final, appear to contain new matter.

With regard to claim 20, applicants amended to claim 20 to even more particularly recite "a plane substantially perpendicular to the dielectric substrate and the first axial direction." Applicants submit that support for the features recited in claim 20, in addition to claims 22, 23, 24 and 25 may be found, e.g., in originally filed paragraphs [0029], [0037] and [0038].\*

With regard to claim 28, applicants amended claim 28 to correspond to an embodiment in which the first pick-up coil portion and the second pick-up coil portion respectively wind around both bar-type portions of the first and second parallel-bar type portions together of the first and second soft magnetic cores in a solenoid pattern. Applicants submit that support for the subject matter of claim 28 may be found, e.g., in originally filed paragraph [0029].

With regard to claim 30, as set forth in the above listing of claims, claim 30 is now cancelled.

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\* Paragraph numbers correspond to paragraph numbers in U.S. Patent Publication No. 2004/0027121.

B. Introduction

In the outstanding Office Action Made Final, the Examiner rejected claims 1 and 17-31 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement; rejected claims 17-31 under 35 U.S.C. § 112, second paragraph; rejected claims 1 and 17-24 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,690,164 to Fedeli et al (hereinafter “the Fedeli et al. reference”), U.S. Patent No. 6,251,834 to Glowacki et al. (“the Glowacki et al. reference”) and U.S. Patent Publication No. 2003/0169037 to Kang et al. (“hereinafter the Kang et al. reference”); and rejected claims 25-31 under 35 U.S.C. § 103(a) as being unpatentable over the Fedeli et al. reference, the Glowacki et al. reference and the Kang et al. reference and in further view of U.S. Patent No. 6,411,086 to Choi et al. (“the Choi et al. reference”).

C. Asserted Rejection of Claims 1 and 17-31 under 35 U.S.C. § 112, First Paragraph

In the outstanding Office Action Made Final, the Examiner rejected claims 1 and 17-31 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. The following language of claim 1 was identified as forming the basis of the rejection:

“the printed circuit board includes a single dielectric core and the first excitation coil, the first pick-up coil, and the first soft magnetic core are disposed on a first side of the printed circuit board and the second excitation coil, the second pick-up coil, and the second soft magnetic core are disposed on a second side of the printed circuit board.”

Claim 1 has been amended as set forth in the above listing of claims to recite:

“the first soft magnetic core is disposed on a first side of the dielectric substrate and the second soft magnetic core is disposed on a second side of the dielectric substrate.”

Support for the amendment to claim 1 may be at least found in originally filed paragraph [0036] and originally filed FIG. 4E. It is respectfully requested that the rejection be withdrawn.

D. Asserted Rejection of Claims 17-31 under 35 U.S.C. § 112, Second Paragraph

In the outstanding Office Action Made Final, the Examiner rejected claims 17-31 under 35 U.S.C. § 112, second paragraph, for failing to have antecedent basis for the “the rectangular ring” feature. Specific language in claim 1 was identified as forming the basis of the rejection. Claim 1 has been amended to recite “a first rectangular ring type soft magnetic core” and “a second rectangular ring type soft magnetic core,” responsive to the rejection. It is respectfully requested that the rejection be withdrawn.

E. Asserted Obviousness Rejection of Claims 1 and 17-24

In the outstanding Office Action Made Final, the Examiner rejected claims 1 and 17-24 under 35 U.S.C. § 103(a) as being unpatentable over the Fedeli et al. reference, the Glowacki et al. reference and the Kang et al. reference.

On July 17, 2006, Applicants filed a Terminal Disclaimer disclaiming the terminal part of the statutory term of any patent on this instant application that would extend beyond the expiration date of the full statutory term of the Kang et al. reference, which now corresponds to U.S. Patent No. 6,753,682.

Applicants submit that the combination of the Fedeli et al. reference and the Glowacki et al. reference does not disclose or suggest the combination of features recited in independent claim 1, as well as all the features of claims 17-24, which directly or indirectly depend from claim 1. It is respectfully requested that the rejection be withdrawn.

F. Asserted Obviousness Rejection of Claims 25-31

In the outstanding Office Action Made Final, the Examiner rejected claims 25-31 under 35 U.S.C. §103(a) as being unpatentable over the Fedeli et al. reference, the Glowacki et al. reference and the Kang et al. reference, and in further view of the Choi et al. reference. The rejection is respectfully traversed for at least the following reasons.

As discussed above, the combination of the Fedeli et al. reference, the Glowacki et al. reference and the Kang et al. reference fails to disclose or suggest all the features of independent claim 1, from which claims 25-31. Applicants submit that the Choi et al. reference fails to overcome the deficiencies of the combination of the Fedeli et al. reference, the Glowacki et al. reference and the Kang et al. reference, as applied to claim 1. For at least these reasons, the combination of the Fedeli et al. reference, the Glowacki et al. reference, the Kang et al. reference and the Choi et al. reference fails to disclose or suggest all the features of claims 25-31. It is respectfully requested that the rejection be withdrawn.

G. Amendment to Drawings

Attached hereto is a Replacement Drawing Sheet, including original FIGS. 4J and 4L and amended FIG. 4K. FIG. 4K is amended such that reference term 108 correctly points to the metal film shown therein. Entry of the Replacement Drawing Sheet is respectfully requested.

H. Conclusion

If the Examiner believes that additional discussions or information might advance the prosecution of the instant application, the Examiner is invited to contact the undersigned at the telephone number listed below to expedite resolution of any outstanding issues.


In view of the foregoing amendments and remarks, reconsideration of this application is earnestly solicited, and an early and favorable further action upon all the claims is hereby requested.



Respectfully submitted,

LEE & MORSE, P.C.

Date: September 29, 2006

  
Eugene M. Lee, Reg. No. 32,039

Attachments:

Replacement Drawing Sheet  
RCE Transmittal  
Petition for Extension of Time (Fees for 3<sup>rd</sup> Month Only)

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PETITION and  
DEPOSIT ACCOUNT CHARGE AUTHORIZATION

This document and any concurrently filed papers are believed to be timely. Should any extension of the term be required, applicant hereby petitions the Director for such extension and requests that any applicable petition fee be charged to Deposit Account No. 50-1645.

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the accompanying-papers may also be charged to Deposit Account No. 50-1645.

FIG. 4J

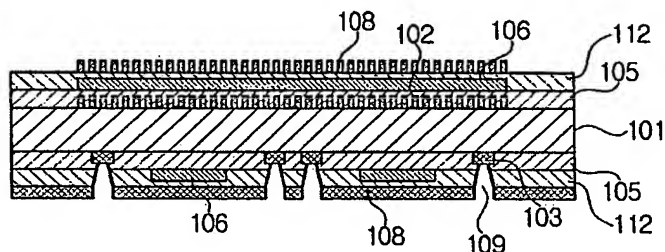


FIG. 4K

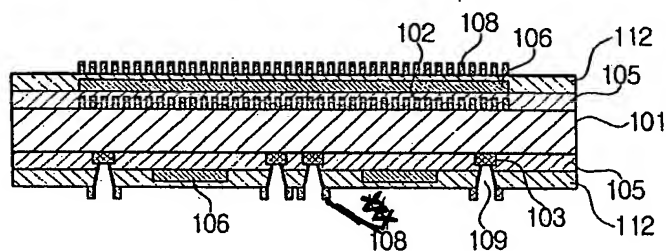


FIG. 4L

